

## **TOUCH SCREEN TECHNOLOGY (and the Apple i-Pad)**

The 'iPad' is recognised as a *"Really powerful, useful tool, befitting this new Millennium"*

Designed by 'APPLE Inc' with the newest 'Touch Screen' technology - Mac & PC Compatible.

It was released in April 2010 in the U.S.A. & later in August 2010 in the UK.

It sold 3 million in 80 days! And this snowball keeps rolling. See iPad sales on the web.

### **What is 'Touch Screen'?**

In 1971, the first "Touch Sensor" was developed by Doctor Sam Hurst (founder of Elographics Kentucky) Apple Inc: later developed and designed this Tech. into their iPhones and iPods. (2001)

It is an [electronic visual display](#) that can detect the presence and location of a touch within the display area. Using only your [finger](#) or [hand](#) or, if you need more precise control - there is a Stylus. There is no need for a 'mouse' or a 'touchpad' to move the cursor; Try an App called ***Laser Lights!***

In a shorter version! iPad uses a 'Capacitive' touch screen panel; this is simply one which consists of an [insulator](#) such as [glass](#), coated with a transparent [conductor](#) such as [indium tin oxide](#): (the screen's [electrostatic](#) field) measurable as a change in [Capacitance](#). A Vibrant colour sharp screen.

There is also the 'Resistive' which is an older technology of thin layers; so when too much pressure is applied it distorts the screen. It is still used in some Touch Pad tablets.

### **The Apple i-Pad.**

IPad has the same solid state 'Nand' flash memory; used in Touch screen iPhone & iPods & Mac books. It uses its own Apple software, downloaded from Apple's App Store; also some other software written by developers, who have to pay for a developer's license on registered devices.

It is a versatile computer tool, easy to travel with you; which you can use when 'Offline' such as if downloaded for Books; videos; music; games etc.

It has a built in Wi Fi automatic finder; also some models with a 3G signal to connect to any available 3G network, anywhere in the World; (as yet not with Aliens!)

How Easy to start? After registering your purchase and therefore linked to the Big Apple, you need to Download iTunes\*

Download the free iTunes to your chosen computer! Then attach the iPad to the Mac or PC with the cable provided and 'SYNCH' (synchronise) across to the iPad. No Computer? All Apple Dealers will set your iPad ready for use, or friends or family may be able to help.

\***What is iTunes?** Since 2001 Apple developed this digital media player application & interface for iPod/iPhone. to enable connection to the Internet; Here you can download either free or purchased Music, Videos, TV & films Etc. using Mac iOS 4.2 & 10.5 Windows. Check out info online before you start.

\***What are Apps;** these are the software programs that we used to have to buy from the shop or wait for the post to insert the CD into a PC. Except with Wi Fi and no connection to the computer, you can browse them first, tap to see contents before you buy, and Tap to install! A lot of mine are Free, or are 59p - £2 to install; it takes seconds and magic!

When registered with iTunes- you have access to the Apple 'Apps' with the built in software such as

**'Settings'** Amazingly easy, with so many settings to meet your custom requirements, such as iPad information, account and storage details. Visually-brightness, Fonts, type and size, layout; Photo frames; Sound choices: Notifications; Network-Wi-Fi or 3G signal in area connection to other networks with VPN. **Airplane Mode**; While away your hrs flying in safety! Also you 'download 'offline' apps for use when in flight.

**Safari**: is Apples 'search facility'; but you can choose your preferred search engine. Safari is built for speed! High Speed 802.11 in Wi-Fi Supported by the latest in web video-in HTML5 which enables a rich multimedia screen.

**Apps Store**: Apps available for just about everything are at your fingertips. Books- iPad users guide for a start! Lots of music-Videos. There are now over 390,000 apps and rising by the day. Just put in the search box a subject and then scroll through the shop window! Often there are subjects not easily available to purchase, such as professional information.

**iTunes**:-Allowing you to 'Upload' & 'Download' information to a computer/iPhone & iPod. 'Social gaming' online.

**Calendar**:- Easy tap add & info; 'Spotlight search facility. GPS connectivity for updates, new Invitation alerts and sound reminders. Clock: with Time Zone support.

**CONTACTS**; The address book for all needs. And the calculator called 'Big Calc' Free.

**Mail**; I have mine is set to Yahoo, but you can add quick access as many 'mail providers' you wish to use, either as bookmarks (in the listed tool) or on screen Apps.

**Note Book**: Instant Tap to place those things to do, shopping Etc.

**Maps**: When in *Wi Fi or 3G* using built in GPS. Google Earth; your own navigation system which knows your location! At a flick of the page View as a general map, or terrain picture. Using Google Earth you can even see the street view to identify locations. Use the search for facility, for directions, hotels-restaurants- addresses, *Offline*-Place a chosen location/address on screen and bookmark it so it is available Offline.

**iPod**; To download music, & video files:

**Photo**; iPad via connectors (Extra Purchase) SD cards to Camera for 'Photos' & Video, or via Apple iPad to a usb cable direct from the Video Camera. Or download from your PC via iTunes connection. As Photos are downloaded in albums, I find I have to edit before downloading once on screen it has a built in Edit function for 'Effects, Transitions, Add Music, to Slideshows.

**Videos**; high resolution to view a home video, Podcasts, No HDMI cable connection yet! You can rent or buy films via the IT on the iTunes icon.

**Library**; A wood effect shelving bookstore for all books and Audio-Books. via Apple Store or 'Amazon Kindle' or 'E-Books'.

**You Tube**; A built in feature of iPad for instant access to all your favourite video clips, as well as using as a blog page via Twitter or face-book.

**Weather**: Weather proHD is a starter App, but you can use the weather channel or accuweather.

Other facilities -

**Easy rotate view**; in Landscape or Portrait, Touch button facility; scroll and double Tap; Pinch to zoom in or out; when you touch and hold a web link, Safari shows you the URL before you begin. Try Tesla Toy App to see remarkable 'Touch screen' technology.

**The On Screen Keyboard**: I found very easier to use than my PC! It has a fast touch speedier action, (Which can be customised) with the usual inbuilt 'Spell-check & grammar' facility

An 'Optional Docking station with Keyboard' makes this into a mini desktop

**Managing Word docs**; try 'PAGES' as the Apple choice and 'Quick Office' all are of a similar style with recognisable toolbars and options. Try Keynote for presentations, there is also a laser pointer to add to your presentations as well as a possible tool to show 'on screen media'.

**Numbers**; is a Spreadsheet app/Excel and other uses

**Files and Folders**: On screen Apps icons and bookmark icons can easily be placed into a multiple folder.

'Synch' iTunes and iPad with free [www.Dropbox.com](http://www.Dropbox.com) for a 2Gb of free file storage and share applications.

**Thumbnail views**; A holding facility of all your open pages, so click on the open page icon to see your past searches ready and available as needed. Easily removed by clicking on the cross

**Printing** via 'Air Print' in an enabled Wi-Fi printer. Or via a PC. Either E-mail to a computer to print or via uploading docs to the computer.

**A 'Find my iPad'** is now an inbuilt facility. It was only with the 'Mobile Me' Apps.

**Multitasking**: The user interface allows quick switches between Apps and web searches. It is a remarkable feature to never lose your last page or partially written E-mail, even after 'switching off! 1 click into the back pages and it's there!

**'Double Tap'** to view recent sites-scroll to the right to reveal your apps. No need to reload as it remembers where you left off! Great when writing E-mails and you need to look for say a contact. You do not lose your work! When downloading you can continue with Safari or Games ETC.

**Music**; Great sound via ear phones jack or speakers or docking station facility. Add your playlists via iTunes to hear your personal choices. (try Pandora or Groovesharke)

**'Air Play'** allows you to stream digital media music wirelessly from your iPhone, iPad, or iPod. to the **Apple TV or any 'air play' enabled speakers. It can be viewed on a Widescreen TV via a composite or VGA cable via Apples 'Air Play'**

**Skype**; Yes it is available but voice only as there is no camera- this is available in the next model.

Apart from the above 'My favourite Apps' are;

**Star Walk**; Astronomy via GPS & 'Heavens Above' bookmarked.

**Translator**; an English/Spanish language tools, also App Med Spanish- a medical translator tool.

**Apple United**; for instant access to Apple site, stores, and information.

**Game centre**; Brain exercises; Sudoku; Drawing Pad & card games & to -play offline.

BBCiPlayer; for when in the UK or I think via a UK based server? & cinema Times;

**Currency converter:** Travel apps.

**‘Talking Tom’** My very own interactive pet!

**General Tech info:** *AVAILABLE in:*

WI-Fi models in 16 GB/ 32 Gb/ 64GB versions.

Approx; - £439/£499/£599 respectively. Starting at €600 in Spain!

WI-Fi + 3G enabled versions; in 16Gb /32Gb / & 64Gb. Start from £529. They all can be found cheaper, be careful!

Supports Wi Fi (802.11a/b/g/n) and Bluetooth 2.1 + EDR Requirements: Mac or PC with USB 2.0

\* Mac OS x v 10.5,8 or later. Windows 7: Windows vista: or Windows XP home or Professional (SP3) or later.

iTunes 0.1 or later version 4.2 (free download from [www.itunes.com/download](http://www.itunes.com/download)) iTunes Store account.

Box Contents; An iPad- dock connector to usb Cable-10W USB power adapter. & a Basic Picture info card.

Height;-9.56” Width;-7.47” Depth;-0.5” Weight; Wi Fi models=1.5ilbs and 3G models are 1.6lbs.

Battery Power; it has two lithium ion New Tech rechargeable batteries; easily charged from the mains via the adaptor. Or via an Apple Mac or PC computer. (with a Mac put the usb into a fast charge mode.)

In older lap tops charging can be slow. The batteries should last ions, but if they need to be changed it is not a DIY job, it has to go back to the factory.

All Apple iPads have a 90day contact warranty, with a 1yr guarantee; this is of course extendable for an extra charge-what isn’t?

Security: Apples own inbuilt firewall and virus checkers, so no need to buy or install others.

Apple iPad is leading a revolution in ‘Tablet technology’ they are leading the transition from print to digital media, and our reading habits. You may see them everywhere as a useful working tool; -Hospital Drs reports or Drs or Radiologists can show X-rays. Media to MPs.

There are many New Tablets being produced in all different sizes. If its pocket IT access you want then an iPhone/ Galaxy are good. If you want thin but larger readable good screen viewing then iPad fits into a small mans and women’s handbag. Great for travelling, as well as when stuck as a hospital inpatient.

Last Note; Take care in checking user reviews and prices before you buy.

Check out: You Tube videos of Apple iPad info. Apple inc. Guru Steve Jobs interviews re-Apples Future, and the debate about why Apple does not support Adobes flash player, and Adobes reply!

Web sites: <http://support.apple.com> [www.macworld.com](http://www.macworld.com) [www.mahalo.com](http://www.mahalo.com)  
[www.bmcdigital.com](http://www.bmcdigital.com) for accessories.

[www.techradar.com](http://www.techradar.com) 10 common problems and easy solutions!

[www.guardian.co.uk/media/2011/feb/14](http://www.guardian.co.uk/media/2011/feb/14)

